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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/809,698	03/26/2004	Daniel L. Nydegger	05165.1460	8140	
*****	7590 10/02/200 STETLER, LLP	7	EXAMINER		
FOR BOEING COMPANY			ACKUN, JACOB K		
	N SQUARE, SUITE 1: CTICUT AVENUE, N.		ART UNIT	PAPER NUMBER	
WASHINGTO	•	•	3728		
	•				
			MAIL DATE	DELIVERY MODE	
			10/02/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Astion Comments	10/809,698	NYDEGGER, DANIEL L.				
Office Action Summary	Examiner	Art Unit				
	Jacob K. Ackun Jr.	3728				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this co D (35 U.S.C. § 133).	,			
Status	,					
1) Responsive to communication(s) filed on 31 Au	iaust 2007.		•			
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the	merits is			
closed in accordance with the practice under E	•					
Disposition of Claims	•	•				
4) Claim(s) 40-64 is/are pending in the application	1.					
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 40-64 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	•					
<u> </u>		Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 110(a)	-(d) or (f)				
a) All b) Some * c) None of:	priority under 35 0.0.0. § 115(a)	-(u) or (i).				
1. Certified copies of the priority documents	have been received					
· · · · · · · · · · · · · · · · · · ·	•	on No				
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	and the second detailed a second design of the seco					
Attachment(s)	A) T 1-4	(DTO 442)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 40-64 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hood (5,935,143). Hood appears to show the elements of the claims. For example, and with reference to claim 40, Hood teaches a first and a second straight portion of an ultrasonic blade (left and right sides of the top portions of the blade illustrated in Fig 2, for example) connected to each other via a curved portion at the very top of the figure. With reference to Fig 4a, one possible configuration of the cutting edge is shown to comprise first and second curved surfaces 47 (note column 6 line 49). As also required in the claim, these curved surfaces are curved about some axes and the blade body is defined about some body axes. The blade of Hood is also considered to be inherently capable of all of the functions recited in the claims, such as use to cut a composite prepreg (claim 49) and use to cut a titanium graphite composite (claim 58).

Based on the teaching in the relevant sections of Hood, it would also have been obvious to curve the first and second surfaces outwardly (convexly) to achieve a different cutting effect.

Also based on the teaching of Hood elements of some dependent claims later deemed not to be

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shown would have been obvious modifications to the reference, for the purpose of improving the cutting performance of the blade.

- 4. Applicant's arguments filed on 8/31/2007 have been fully considered but they are not persuasive. Applicant argues that hood does not show a cambered or curved surface extending from a first side to a second side of the blade body and defining a cutting edge. Yet as set forth in the rejection Hood does show these elements.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob K. Ackun Jr. whose telephone number is (571)272-4418. The examiner can normally be reached on Monday through Friday 8.30AM-5.00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mickey Yu can be reached on (571)272-4562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jacob K. Ackun Jr. Primary Examiner Art Unit 3728

J.A.